

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) An apparatus useful for inhibiting blood loss out a puncture site in a blood vessel wall and for indicating the location of a blood vessel comprising:

a vent tube including a tubular shaft having a proximal end, a distal end, and a lumen extending longitudinally between the proximal end and the distal end;

a control head on the distal end of the vent tube shaft, the control head including a proximal end portion, a distal end portion having a distal port, and a central portion between the proximal end portion and the distal end portion, the control head including a lumen extending from the distal port to the vent tube shaft lumen.

2. (Original) An apparatus in accordance with Claim 1, wherein the control head proximal end portion is externally tapered.

3. (Original) An apparatus in accordance with Claim 1, wherein the control head distal end portion is externally tapered.

4. (Original) An apparatus in accordance with Claim 1, wherein the control head further comprises a hole extending laterally through the control head and communicating the control head lumen with the exterior of the control head.

5. (Original) An apparatus in accordance with Claim 1, wherein the control head lumen has a substantially constant inner diameter.

6. (Original) An apparatus in accordance with Claim 1, wherein the control head lumen has an inner diameter larger in the central portion than in the distal portion.

7. (Previously presented) An apparatus in accordance with Claim 1, further comprising a tubular shaft positioned around the vent tube shaft, the tubular shaft including a proximal end, a distal end, and a lumen extending longitudinally between the tubular shaft proximal end and the tubular shaft distal end, the inner diameter of the tubular shaft lumen being larger than the outer diameter of the vent tube.

8. (Original) An apparatus in accordance with Claim 7, wherein the tubular shaft is affixed to the vent tube so as to inhibit relative longitudinal motion of the tubular shaft and the vent tube.

9. (Original) An apparatus in accordance with Claim 8, further comprising an elastic ring slidably positioned on the exterior of the tubular shaft.

10. (Original) An apparatus in accordance with Claim 7, wherein the vent tube is slidably received in the tubular shaft lumen.

11. (Original) An apparatus in accordance with Claim 7, wherein the tubular shaft further comprises a proximal fluid seal and a distal fluid seal between the vent tube and the tubular shaft.

12. (Original) An apparatus in accordance with Claim 7, wherein the tubular shaft lumen at the distal end of the tubular shaft has an inner diameter that increases distally.

13. (Currently amended) An apparatus in accordance with Claim 1, further comprising a wire[-]extending through the vent tube lumen, the wire having an outer diameter less than the vent tube lumen inner diameter.

14. (Currently Amended) A pledget delivery and blood vessel puncture site control system comprising:

a control tip including:

a vent tube having a tubular shaft with a proximal end, a distal end, and a lumen extending longitudinally between the proximal end and the distal end; and

a control head on the distal end of the vent tube shaft, the control head including an externally tapered proximal end portion, a distal end portion having a distal port, and a central portion between the proximal end portion and the distal end portion, the control head including a lumen extending from the distal port to the vent tube shaft lumen;

a pledget pusher positioned around the vent tube shaft, the pledget pusher including a tubular shaft having a proximal end, a distal end and a lumen extending longitudinally between the pledget pusher proximal end and the pledget pusher distal end, the inner diameter of the pledget pusher lumen being larger than the outer diameter of the vent tube; and

a delivery cannula positioned around the pledget pusher, the delivery cannula including a tubular shaft having a proximal end, a distal end, and a lumen extending longitudinally between the delivery cannula proximal end and the delivery cannula distal end, the inner diameter of the delivery cannula lumen being larger than the outer diameter of the pledget pusher;

the control head extending distally from the delivery cannula distal end, the delivery cannula distal end extending distally of the pledget pusher distal end.

15. (Original) A system in accordance with Claim 14, wherein the control head is sized to be slidable through the delivery cannula lumen.

16. (Original) A system in accordance with Claim 14, further comprising a pledget positioned in the delivery cannula lumen distal of the pledget pusher distal end.

17. (Original) A system in accordance with Claim 14, further comprising a handle having a proximal end and a distal end, the handle and the control tip together further comprising a motion limiting device, portions of the motion limiting device being formed on the vent tube adjacent the vent tube proximal end, and portions of the motion limiting device being formed on the handle proximal end, the motion limiting device limiting longitudinal motion of the vent tube relative to the handle over a distance X.

18. (Original) A system in accordance with Claim 17, wherein the control head extends distally from the delivery cannula distal end the distance X.

19. (Previously presented) A system in accordance with Claim 17, wherein the pledget pusher further comprises a proximal hub positioned in the handle, wherein the pledget pusher is slidable in the delivery cannula between a proximal position with the pledget pusher proximal hub engaging the vent tube portions of the motion limiting device, and a distal position with the pledget pusher proximal hub engaging the handle distal end.

20. (Original) A system in accordance with Claim 14, further comprising a handle having a proximal end and a distal end, the handle including a distal hub, wherein the delivery cannula includes a proximal hub, the handle distal hub and the delivery cannula proximal hub including mating structures which releasably hold the handle and the delivery cannula together.

21. (Original) A system in accordance with claim 14, further comprising a handle having a proximal end, a distal end, at least one side extending between the handle proximal end and the handle distal end, and an open space adjacent to the at least one side, the pledget pusher including a proximal hub positioned in the handle open space.

22. (Original) A system in accordance with Claim 21, wherein the pledget pusher is slidable in the delivery cannula between a proximal position and a distal position with the pledget pusher proximal hub engaging the handle distal end.

23. (Original) A system in accordance with Claim 14, wherein the pledget pusher distal end includes a countersunk taper having a taper angle substantially the same as the taper angle of the control head externally tapered proximal end portion.

24. (Currently amended) A system in accordance with Claim 14, further comprising a pledget hydration device having a body with a proximal end, a distal end, an interior chamber, a ~~tabular~~ tubular extension extending from the body distal end, a stop adjacent the tubular extension, and a proximal opening, the tubular extension sized to receive the delivery cannula therein, the stop sized and configured to prevent the delivery cannula from entering the interior chamber and sized and configured to permit the pledget pusher and control head to pass into the interior chamber.

25. (Currently amended) A method of positioning a pledget adjacent to the exterior surface of a blood vessel puncture site in a patient, comprising the steps of:

advancing a control head of a control tip through the puncture site and at least partially into the blood vessel, the control tip including a proximal portion extending out of the puncture site and out of the patient;

advancing an assembly over the control tip proximal portion and adjacent to an exterior surface of the blood vessel, the assembly including a delivery cannula having a lumen, a pledget pusher in the delivery cannula, and a pledget in the delivery cannula;

proximally retracting the control head, after the assembly advancing step, so that the control head is adjacent the pledget; and

expelling the pledget from the delivery cannula.

26. (Original) A method in accordance with Claim 25, wherein the step of proximally retracting the control head comprises engaging the pledget with the control head.

27. (Original) A method in accordance with Claim 25, wherein the step of proximally retracting the control head comprises engaging the blood vessel puncture with the control head.

28. (Original) A method in accordance with Claim 25, wherein the steps of advancing the control head and advancing the assembly are performed simultaneously.

29. (Original) A method in accordance with Claim 25, wherein the step of advancing the control head is performed before the step of advancing the assembly.

30. (Original) A method in accordance with Claim 25, further comprising the step of:  
proximally retracting the delivery cannula and the control tip relative to the puncture site and relative to the pledget pusher.

31. (Original) A method in accordance with Claim 30, further comprising the step of:  
proximally retracting the control tip relative to the puncture site and relative to the  
pledget pusher.

32. (Original) A method in accordance with Claim 30, wherein the expelling step further  
comprises the step of distally advancing the pledget pusher to push the pledget out of the  
delivery catheter.

33. (Previously presented) A method in accordance with Claim 32, further comprising  
proximally retracting the control head and the pledget pusher relative to the delivery cannula, the  
control head being retracted through the pledget, the delivery cannula distal end engaging the  
pledget.

34. (Original) A method in accordance with Claim 33, wherein the expelling step further  
comprises the step of distally advancing the pledget pusher to compress the pledget.

35. (Previously presented) A method in accordance with Claim 25, wherein the control  
tip includes a fluid flow path from the control head to the proximal end of the proximal portion,  
and further comprising stopping the step of advancing the control head after blood from the  
blood vessel has traveled along the fluid flow path to the control tip proximal end.

36. (Original) A method in accordance with Claim 35, further comprising stopping the  
step of advancing the assembly after distal portions of the assembly bump into the blood vessel  
wall.

37. (Original) A method in accordance with Claim 325, wherein the step of advancing the control tip and the step of advancing the assembly are performed simultaneously.

38. (Currently amended) A method of measuring the distance between an epidermal outer surface and the outer surface of a blood vessel, the blood vessel having a puncture therethrough at a puncture site, comprising the steps of:

advancing a control tip through subcutaneous tissue and into the blood vessel through the puncture;

advancing a tubular shaft over the control tip until a distal end of the tubular shaft engages the outer surface of the blood vessel, wherein advancement of the tubular shaft is stopped when blood from the blood vessel flashes out a proximal end of the tubular shaft; and positioning a marker along the tubular shaft against the epidermal outer surface.

39. (Original) A method in accordance with Claim 38, wherein the step of advancing the control tip and the step of advancing the tubular shaft are performed simultaneously.

40. (Original) A method in accordance with Claim 38, wherein the step of advancing the control tip is performed before the step of advancing the tubular shaft.

41. (Original) A method in accordance with Claim 38, wherein the step of advancing the control tip is stopped after blood from the blood vessel flashes out a proximal end of the control tip.

42. (Original) A method in accordance with Claim 38, wherein the step of advancing the tubular shaft is stopped when distal portions of the tubular shaft bump into the blood vessel wall.

43. (Canceled).



44. (Currently amended) A method of at least partially controlling blood flow through a puncture site in a blood vessel wall, comprising the steps of:

inserting a control tip having a control head with a proximal end portion through the vessel wall at the puncture site and so that the control head proximal end portion is inserted at least partially into the blood vessel; and

positioning a pledget adjacent to an outer surface of the blood vessel wall at the puncture site with the control tip still at least part in the vessel puncture site, the pledget including a distal end portion; and

repositioning the control tip with respect to the pledget distal end portion thereby to control blood flow therebetween.

45. (Previously presented) A method for positioning a pledget adjacent to the exterior surface of a blood vessel puncture site, comprising:

holding a pusher stationary relative to a delivery cannula;

retracting a delivery cannula proximally relative to said pusher to expose a distal end of the pledget; and

advancing the pusher distally relative to the delivery cannula,

whereby the entire pledget is simultaneously exposed and compressed against the exterior surface of the blood vessel puncture site.

46. (Previously presented) The method of claim 45 wherein said advancing further comprises pushing the pusher distally down a control tip, whereby said control tip prevents the pledget from entering the blood vessel puncture site.

47. (Previously presented) The method of claim 46 further comprising controlling a blood flow from the blood vessel puncture site with said control tip.

48. (Previously presented) The method of claim 46 further comprising:  
withdrawing the pusher and said control tip proximally relative to the delivery cannula;  
and  
removing the delivery cannula.